

MSO OEM Series

OEM multipurpose fingerprint modules



Excellent fingerprint image quality: large capture surface, FBI PIV IQS certification

Enrollment, 1:1 verification and 1:N identification capabilities

High accuracy: embedded FIPS 201 and MINEX compliant algorithms

Large internal database capacity: up to 5000 users (2 templates each)

Options: fake finger detection, security features

THE MSO OEM SERIES (MSO OEM & MSO OEM XX1)

are smart biometric optical devices which allow the rapid integration of biometrics in a wide range of applications requiring a high level of security. They are designed for high-contrast image acquisition, and fast biometric template processing, verification and identification. The MSO OEM & MSO OEM XX1 meet and exceed FBI PIV IQS requirements.

These advanced OEM modules integrate IDEMIA's algorithms, approved by the FIPS 201 Evaluation Program. IDEMIA's fingerprint technology is consistently ranked #1 by NIST for accuracy.

A wide range of applications:

- Registration: ID cards, immigration, voting and welfare system, etc.
- ID check as an add-on device for any kind of transaction terminal, PC, PoS, ATM, etc.
- Enrollment stations for access control or time & attendance systems



- Versatile devices that carry out **both enrollment and comparison** (1:1 authentication and 1:N identification)
- **Excellent fingerprint capture and processing performance** with the largest single fingerprint optical sensor on the market (23x23mm, 500 dpi, 256 grey levels)
 - Authentication < 0.7 sec⁽¹⁾
 - Identification < 0.9 sec in 1:1000 mode⁽¹⁾
 - Top grade solution to register young or elderly people, manual laborers (mining, textile, etc.)
- **Overall performance certified at the highest levels:**
 - FBI PIV IQS / ISO 19794-4: 2011 (image quality)
 - FIPS 201 and MINEX compliant template generator and matcher
- **Accurate:** the false acceptance rate (FAR) is configurable down to 10⁻⁸ - depending on the security requirements - and maintained regardless of number of users in database
- **Robust:** the optical sensor technology offers longer life-time and enhanced resistance to electro-static discharges, scratches and shocks. With the entire modules sealed from dust and water, they can be easily integrated into IP65-rated end products
- **Large internal database:** standard capacity of 500 users (2 fingerprints each), extendable to 3000⁽²⁾ or 5000⁽³⁾
- **Multiple template & image formats:**
 - ISO 19794-2, ANSI/INCITS 378, and Proprietary
 - ISO 19794-4, WSQ compressed image
- **Capable of supporting 2 communication protocols:** RS232 or USB interfaces
- **Options:**
 - Fake finger detection on MSO OEM XX1
 - Security features to protect the communication channel between host and device (integrity check, data encryption)

SOFTWARE PACKAGES

The **MSO SDK** is available to integrate easily the MSO OEM and MSO OEM XX1 modules into various applications and use their embedded capabilities:

- Available for Windows, Linux and Android Platforms
- Includes a BioAPI interface

NB: Low level protocol (ILV) is also available

		MSO OEM	MSO OEM XX1
Database capacity (users)		500, 3000 ⁽²⁾ or 5000 ⁽³⁾	
Database capacity (templates or fingers)		1000, 6000 ⁽²⁾ or 10000 ⁽³⁾	
Matching capability (1:N)		1:500, 1:3000 ⁽²⁾ or 1:5000 ⁽³⁾	
Fake finger detection		—	Yes
Security Layer		Optional	
Certifications	FBI PIV IQS / ISO 19794-4: 2011 (Annex. B)	Yes	
	FIPS 201 & MINEX compliant algorithms	Yes	
	IP65	Yes	
	CE, FCC, RoHS	Yes	
	WHQL drivers	Yes	

⁽¹⁾ Includes detection, encoding and matching

⁽²⁾ With MSO IDENTLITE license

⁽³⁾ With MSO IDENTPLUS license